RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/661,156
Source: 1Fwo
Date Processed by STIC: 1/4/05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/661,156_   CRF Edit Date: _1/6/05_
                                     Edited by: _JL_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence
      text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

      _____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID
      NO's edited:

      _____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

      _____

____ Moved responses to same line as heading/numeric identifier, specifically:

      _____

✓____ Other: _inserted hard return after <220> - Seqs. 4, 5,_
      _260, 380_

IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/661,156

DATE: 01/06/2005
TIME: 17:25:22

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01062005\J661156.raw

```
 3 <110> APPLICANT: Sato, Aaron K.
 4         Sexton, Daniel J.
 5         Dransfield, Daniel T.
 6         Ladner, Robert C.
 7         Arbogast, Christophe
 8         Bussat, Philippe
 9         Fan, Hong
10         Khurana, Sudha
11         Linder, Karen E.
12         Marinelli, Edmund R.
13         Nanjappan, Palaniappa
14         Nunn, Adrian
15         Pillai, Radhakrishna
16         Pochon, Sibylle
17         Ramalingam, Kondareddiar
18         Shrivastava, Ajay
19         Song, Bo
20         Swenson, Rolf E.
21         Von Wronski, Mathew A.
23 <120> TITLE OF INVENTION: KDR and VEGF/KDR Binding Peptides and
24         Their Use in Diagnosis and Therapy
26 <130> FILE REFERENCE: D0617.70012US00
28 <140> CURRENT APPLICATION NUMBER: US 10/661,156
29 <141> CURRENT FILING DATE: 2003-09-11
31 <150> PRIOR APPLICATION NUMBER: US 10/382,082
32 <151> PRIOR FILING DATE: 2003-03-03
34 <150> PRIOR APPLICATION NUMBER: PCT/US03/06731
35 <151> PRIOR FILING DATE: 2003-03-03
37 <150> PRIOR APPLICATION NUMBER: US 60/440,411
38 <151> PRIOR FILING DATE: 2003-01-15
40 <150> PRIOR APPLICATION NUMBER: US 60/360,851
41 <151> PRIOR FILING DATE: 2002-03-01
43 <160> NUMBER OF SEQ ID NOS: 617
45 <170> SOFTWARE: FastSEQ for Windows Version 4.0
48 <210> SEQ ID NO: 1
49 <211> LENGTH: 19
50 <212> TYPE: PRT
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
55 <223> OTHER INFORMATION: KDR or VEGF/KDR-Binding Consensus Sequence 5
57 <220> FEATURE:
58 <221> NAME/KEY: VARIANT
59 <222> LOCATION: (1)...(1)
```

```
 60 <223> OTHER INFORMATION: Xaa = Arg, Glu, His, Ser or Trp
 62 <220> FEATURE:
 63 <221> NAME/KEY: VARIANT
 64 <222> LOCATION: (2)...(2)
 65 <223> OTHER INFORMATION: Xaa = Asn, Asp, Leu, Phe, Thr or Val
 67 <220> FEATURE:
 68 <221> NAME/KEY: VARIANT
 69 <222> LOCATION: (3)...(3)
 70 <223> OTHER INFORMATION: Xaa = Arg, Asp, Glu, His, Lys or Thr
 72 <220> FEATURE:
 73 <221> NAME/KEY: VARIANT
 74 <222> LOCATION: (5)...(5)
 75 <223> OTHER INFORMATION: Xaa = Asp, Glu, His or Thr
 77 <220> FEATURE:
 78 <221> NAME/KEY: VARIANT
 79 <222> LOCATION: (6)...(6)
 80 <223> OTHER INFORMATION: Xaa = Arg, His, Lys or Phe
 82 <220> FEATURE:
 83 <221> NAME/KEY: VARIANT
 84 <222> LOCATION: (7)...(7)
 85 <223> OTHER INFORMATION: Xaa = Gln, Ile, Lys, Tyr or Val
 87 <220> FEATURE:
 88 <221> NAME/KEY: VARIANT
 89 <222> LOCATION: (8)...(8)
 90 <223> OTHER INFORMATION: Xaa = Gln, Ile, Leu, Met or Phe
 92 <220> FEATURE:
 93 <221> NAME/KEY: VARIANT
 94 <222> LOCATION: (12)...(12)
 95 <223> OTHER INFORMATION: Xaa = Asn, Asp, Gly, His or Tyr
 97 <220> FEATURE:
 98 <221> NAME/KEY: VARIANT
 99 <222> LOCATION: (13)...(13)
100 <223> OTHER INFORMATION: Xaa = Gln, Gly, Ser or Thr
102 <220> FEATURE:
103 <221> NAME/KEY: VARIANT
104 <222> LOCATION: (14)...(14)
105 <223> OTHER INFORMATION: Xaa = Glu, Lys, Phe or Ser
107 <220> FEATURE:
108 <221> NAME/KEY: VARIANT
109 <222> LOCATION: (15)...(15)
110 <223> OTHER INFORMATION: Xaa = Glu, Ile, Ser or Val
112 <220> FEATURE:
113 <221> NAME/KEY: VARIANT
114 <222> LOCATION: (17)...(17)
115 <223> OTHER INFORMATION: Xaa = Glu, Gly, Lys, Phe, Ser or Val
117 <220> FEATURE:
118 <221> NAME/KEY: VARIANT
119 <222> LOCATION: (18)...(18)
120 <223> OTHER INFORMATION: Xaa = Arg, Asn, Ser or Tyr
```

RAW SEQUENCE LISTING   DATE: 01/06/2005
PATENT APPLICATION: **US/10/661,156**   TIME: 17:25:22

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01062005\J661156.raw**

```
       122 <220> FEATURE:
       123 <221> NAME/KEY: VARIANT
       124 <222> LOCATION: (19)...(19)
       125 <223> OTHER INFORMATION: Xaa = Asp, Gln, Glu, Gly, Met or Tyr
       127 <400> SEQUENCE: 1
W-->   128 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Ser Gly Pro Xaa Xaa Xaa Xaa Cys
       129 1               5                   10                  15
       130 Xaa Xaa Xaa
       134 <210> SEQ ID NO: 2
       135 <211> LENGTH: 14
       136 <212> TYPE: PRT
       137 <213> ORGANISM: Artificial Sequence
       139 <220> FEATURE:
       141 <223> OTHER INFORMATION: KDR or VEGF/KDR-Binding Consensus Sequence 7
       143 <220> FEATURE:
       144 <221> NAME/KEY: VARIANT
       145 <222> LOCATION: (5)...(5)
       146 <223> OTHER INFORMATION: Xaa = Asp, Gln or His
       148 <220> FEATURE:
       149 <221> NAME/KEY: VARIANT
       150 <222> LOCATION: (6)...(6)
       151 <223> OTHER INFORMATION: Xaa = His or Tyr (preferably Tyr)
       153 <220> FEATURE:
       154 <221> NAME/KEY: VARIANT
       155 <222> LOCATION: (7)...(7)
       156 <223> OTHER INFORMATION: Xaa = Ile, His or Tyr
       158 <220> FEATURE:
       159 <221> NAME/KEY: VARIANT
       160 <222> LOCATION: (9)...(9)
       161 <223> OTHER INFORMATION: Xaa = Ile, Met or Val
       163 <220> FEATURE:
       164 <221> NAME/KEY: VARIANT
       165 <222> LOCATION: (10)...(10)
       166 <223> OTHER INFORMATION: Xaa = Gly or Tyr
       168 <220> FEATURE:
       169 <221> NAME/KEY: VARIANT
       170 <222> LOCATION: (12)...(12)
       171 <223> OTHER INFORMATION: Xaa = Asp, Lys or Pro
       173 <220> FEATURE:
       174 <221> NAME/KEY: VARIANT
       175 <222> LOCATION: (13)...(13)
       176 <223> OTHER INFORMATION: Xaa = Gln, Gly or Trp
       178 <220> FEATURE:
       179 <221> NAME/KEY: VARIANT
       180 <222> LOCATION: (14)...(14)
       181 <223> OTHER INFORMATION: Xaa = Phe, Ser or Thr
       183 <400> SEQUENCE: 2
W-->   184 Trp Tyr Trp Cys Xaa Xaa Xaa Gly Xaa Xaa Cys Xaa Xaa Xaa
       185 1               5                   10
```

RAW SEQUENCE LISTING   DATE: 01/06/2005
PATENT APPLICATION: **US/10/661,156**   TIME: 17:25:22

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01062005\J661156.raw**

```
187 <210> SEQ ID NO: 3
188 <211> LENGTH: 17
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
194 <223> OTHER INFORMATION: KDR or VEGF/KDR-Binding Consensus Sequence 9
196 <220> FEATURE:
197 <221> NAME/KEY: VARIANT
198 <222> LOCATION: (1)...(1)
199 <223> OTHER INFORMATION: Xaa = Ser, Phe, Trp, Tyr or Gly
201 <220> FEATURE:
202 <221> NAME/KEY: VARIANT
203 <222> LOCATION: (2)...(2)
204 <223> OTHER INFORMATION: Xaa = Arg, Gly, Ser or Trp
206 <220> FEATURE:
207 <221> NAME/KEY: VARIANT
208 <222> LOCATION: (3)...(3)
209 <223> OTHER INFORMATION: Xaa = Ala, Glu, Ile or Val
211 <220> FEATURE:
212 <221> NAME/KEY: VARIANT
213 <222> LOCATION: (5)...(5)
214 <223> OTHER INFORMATION: Xaa = Ala, Phe or Trp
216 <220> FEATURE:
217 <221> NAME/KEY: VARIANT
218 <222> LOCATION: (6)...(6)
219 <223> OTHER INFORMATION: Xaa = Glu or Lys
221 <220> FEATURE:
222 <221> NAME/KEY: VARIANT
223 <222> LOCATION: (7)...(7)
224 <223> OTHER INFORMATION: Xaa = Asp, Ser, Trp or Tyr
226 <220> FEATURE:
227 <221> NAME/KEY: VARIANT
228 <222> LOCATION: (8)...(8)
229 <223> OTHER INFORMATION: Xaa = Phe, Pro or Ser
231 <220> FEATURE:
232 <221> NAME/KEY: VARIANT
233 <222> LOCATION: (12)...(12)
234 <223> OTHER INFORMATION: Xaa = Gln or Glu
236 <220> FEATURE:
237 <221> NAME/KEY: VARIANT
238 <222> LOCATION: (13)...(13)
239 <223> OTHER INFORMATION: Xaa = Ile, Phe or Val
241 <220> FEATURE:
242 <221> NAME/KEY: VARIANT
243 <222> LOCATION: (15)...(15)
244 <223> OTHER INFORMATION: Xaa = Gln, Ile, Leu, Phe or Tyr
246 <220> FEATURE:
247 <221> NAME/KEY: VARIANT
248 <222> LOCATION: (16)...(16)
```

RAW SEQUENCE LISTING   DATE: 01/06/2005
PATENT APPLICATION: **US/10/661,156**   TIME: 17:25:22

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01062005\J661156.raw**

```
249 <223> OTHER INFORMATION: Xaa = Arg, Gly or Pro
251 <220> FEATURE:
252 <221> NAME/KEY: VARIANT
253 <222> LOCATION: (17)...(17)
254 <223> OTHER INFORMATION: Xaa = Gln, His, Phe, Ser, Tyr or Val
256 <400> SEQUENCE: 3
```

W--> `257 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Trp Gly Gly Xaa Xaa Cys Xaa Xaa`

```
258  1               5                   10                  15
259 Xaa
263 <210> SEQ ID NO: 4
264 <211> LENGTH: 18
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
270 <223> OTHER INFORMATION: KDR or VEGF/KDR-Binding Consensus Sequence 10
272 <220> FEATURE:
273 <221> NAME/KEY: VARIANT
274 <222> LOCATION: (3)...(3)
275 <223> OTHER INFORMATION: Xaa = Gly or Trp
277 <220> FEATURE:
278 <221> NAME/KEY: VARIANT
279 <222> LOCATION: (5)...(5)
280 <223> OTHER INFORMATION: Xaa = His or Tyr
282 <220> FEATURE:
283 <221> NAME/KEY: VARIANT
284 <222> LOCATION: (7)...(7)
285 <223> OTHER INFORMATION: Xaa = His, Leu or Thr
287 <220> FEATURE:
288 <221> NAME/KEY: VARIANT
289 <222> LOCATION: (9)...(9)
290 <223> OTHER INFORMATION: Xaa = Asp or Leu
292 <220> FEATURE:
293 <221> NAME/KEY: VARIANT
294 <222> LOCATION: (11)...(11)
295 <223> OTHER INFORMATION: Xaa = Gly or Val
297 <220> FEATURE:
298 <221> NAME/KEY: VARIANT
299 <222> LOCATION: (12)...(12)
300 <223> OTHER INFORMATION: Xaa = Thr or Val
302 <220> FEATURE:
303 <221> NAME/KEY: VARIANT
304 <222> LOCATION: (13)...(13)
305 <223> OTHER INFORMATION: Xaa = Arg or Trp
307 <220> FEATURE:
308 <221> NAME/KEY: VARIANT
309 <222> LOCATION: (16)...(16)
310 <223> OTHER INFORMATION: Xaa = Ala or Val
312 <220> FEATURE:
313 <221> NAME/KEY: VARIANT
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/06/2005
PATENT APPLICATION: US/10/661,156   TIME: 17:25:23

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\01062005\J661156.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,5,6,7,8,12,13,14,15,17,18,19
Seq#:2; Xaa Pos. 5,6,7,9,10,12,13,14
Seq#:3; Xaa Pos. 1,2,3,5,6,7,8,12,13,15,16,17
Seq#:4; Xaa Pos. 3,5,7,9,11,12,13,16,17,18
Seq#:5; Xaa Pos. 1,2,3,5,6,7,8,9,10,12,14,16,17,18
Seq#:6; Xaa Pos. 3,5,6,7,8,9,10,11,12,13,14,16,17,18
Seq#:7; Xaa Pos. 1,2,3,7,8,9
Seq#:13; Xaa Pos. 2,3,4,5,9,10,11,12
Seq#:14; Xaa Pos. 2,3,4,5,9,10
Seq#:15; Xaa Pos. 2,4,6,8,9,10
Seq#:16; Xaa Pos. 2,3,4,5,6,7,9,11
Seq#:17; Xaa Pos. 2,3,4,5,9,10,11,12
Seq#:19; Xaa Pos. 1,2,3,5,6,7,8,12,13,14,15,17,18,19
Seq#:260; Xaa Pos. 5,6,7,10,12,13,14
Seq#:261; Xaa Pos. 1,2,7,8,9,12,14,15,16,17,18
Seq#:380; Xaa Pos. 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
Seq#:455; Xaa Pos. 6
Seq#:456; Xaa Pos. 13

VERIFICATION SUMMARY   DATE: 01/06/2005
PATENT APPLICATION: **US/10/661,156**   TIME: 17:25:23

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01062005\J661156.raw**

```
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:561 M:283 W: Missing Blank Line separator, <220> field identifier
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:804 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:871 M:283 W: Missing Blank Line separator, <400> field identifier
L:956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
M:341 Repeated in SeqNo=19
L:4622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260 after pos.:0
L:4654 M:283 W: Missing Blank Line separator, <220> field identifier
L:4665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261 after pos.:0
M:341 Repeated in SeqNo=261
L:6484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:380 after pos.:0
M:341 Repeated in SeqNo=380
L:7656 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7660 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:455
L:7661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:455 after pos.:0
L:7676 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7680 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:456
L:7681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456 after pos.:0
L:8251 M:283 W: Missing Blank Line separator, <220> field identifier
```

IFWO

RAW SEQUENCE LISTING   DATE: 01/04/2005
PATENT APPLICATION: US/10/661,156   TIME: 13:02:45

Input Set : **A:\D0617.70012US00seq.txt**
Output Set: **N:\CRF4\01042005\J661156.raw**

```
 3 <110> APPLICANT: Sato, Aaron K.
 4         Sexton, Daniel J.
 5         Dransfield, Daniel T.
 6         Ladner, Robert C.
 7         Arbogast, Christophe
 8         Bussat, Philippe
 9         Fan, Hong
10         Khurana, Sudha
11         Linder, Karen E.
12         Marinelli, Edmund R.
13         Nanjappan, Palaniappa
14         Nunn, Adrian
15         Pillai, Radhakrishna
16         Pochon, Sibylle
17         Ramalingam, Kondareddiar
18         Shrivastava, Ajay
19         Song, Bo
20         Swenson, Rolf E.
21         Von Wronski, Mathew A.
23 <120> TITLE OF INVENTION: KDR and VEGF/KDR Binding Peptides and
24         Their Use in Diagnosis and Therapy
26 <130> FILE REFERENCE: D0617.70012US00
28 <140> CURRENT APPLICATION NUMBER: US 10/661,156
29 <141> CURRENT FILING DATE: 2003-09-11
31 <150> PRIOR APPLICATION NUMBER: US 10/382,082
32 <151> PRIOR FILING DATE: 2003-03-03
34 <150> PRIOR APPLICATION NUMBER: PCT/US03/06731
35 <151> PRIOR FILING DATE: 2003-03-03
37 <150> PRIOR APPLICATION NUMBER: US 60/440,411
38 <151> PRIOR FILING DATE: 2003-01-15
40 <150> PRIOR APPLICATION NUMBER: US 60/360,851
41 <151> PRIOR FILING DATE: 2002-03-01
43 <160> NUMBER OF SEQ ID NOS: 617
45 <170> SOFTWARE: FastSEQ for Windows Version 4.0
48 <210> SEQ ID NO: 1
49 <211> LENGTH: 19
50 <212> TYPE: PRT
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
55 <223> OTHER INFORMATION: KDR or VEGF/KDR-Binding Consensus Sequence 5
57 <220> FEATURE:
58 <221> NAME/KEY: VARIANT
59 <222> LOCATION: (1)...(1)
```

RAW SEQUENCE LISTING   DATE: 01/04/2005
PATENT APPLICATION: **US/10/661,156**   TIME: 13:02:45

Input Set : **A:\D0617.70012US00seq.txt**
Output Set: **N:\CRF4\01042005\J661156.raw**

```
 60 <223> OTHER INFORMATION: Xaa = Arg, Glu, His, Ser or Trp
 62 <220> FEATURE:
 63 <221> NAME/KEY: VARIANT
 64 <222> LOCATION: (2)...(2)
 65 <223> OTHER INFORMATION: Xaa = Asn, Asp, Leu, Phe, Thr or Val
 67 <220> FEATURE:
 68 <221> NAME/KEY: VARIANT
 69 <222> LOCATION: (3)...(3)
 70 <223> OTHER INFORMATION: Xaa = Arg, Asp, Glu, His, Lys or Thr
 72 <220> FEATURE:
 73 <221> NAME/KEY: VARIANT
 74 <222> LOCATION: (5)...(5)
 75 <223> OTHER INFORMATION: Xaa = Asp, Glu, His or Thr
 77 <220> FEATURE:
 78 <221> NAME/KEY: VARIANT
 79 <222> LOCATION: (6)...(6)
 80 <223> OTHER INFORMATION: Xaa = Arg, His, Lys or Phe
 82 <220> FEATURE:
 83 <221> NAME/KEY: VARIANT
 84 <222> LOCATION: (7)...(7)
 85 <223> OTHER INFORMATION: Xaa = Gln, Ile, Lys, Tyr or Val
 87 <220> FEATURE:
 88 <221> NAME/KEY: VARIANT
 89 <222> LOCATION: (8)...(8)
 90 <223> OTHER INFORMATION: Xaa = Gln, Ile, Leu, Met or Phe
 92 <220> FEATURE:
 93 <221> NAME/KEY: VARIANT
 94 <222> LOCATION: (12)...(12)
 95 <223> OTHER INFORMATION: Xaa = Asn, Asp, Gly, His or Tyr
 97 <220> FEATURE:
 98 <221> NAME/KEY: VARIANT
 99 <222> LOCATION: (13)...(13)
100 <223> OTHER INFORMATION: Xaa = Gln, Gly, Ser or Thr
102 <220> FEATURE:
103 <221> NAME/KEY: VARIANT
104 <222> LOCATION: (14)...(14)
105 <223> OTHER INFORMATION: Xaa = Glu, Lys, Phe or Ser
107 <220> FEATURE:
108 <221> NAME/KEY: VARIANT
109 <222> LOCATION: (15)...(15)
110 <223> OTHER INFORMATION: Xaa = Glu, Ile, Ser or Val
112 <220> FEATURE:
113 <221> NAME/KEY: VARIANT
114 <222> LOCATION: (17)...(17)
115 <223> OTHER INFORMATION: Xaa = Glu, Gly, Lys, Phe, Ser or Val
117 <220> FEATURE:
118 <221> NAME/KEY: VARIANT
119 <222> LOCATION: (18)...(18)
120 <223> OTHER INFORMATION: Xaa = Arg, Asn, Ser or Tyr
```

RAW SEQUENCE LISTING   DATE: 01/04/2005
PATENT APPLICATION: US/10/661,156   TIME: 13:02:45

Input Set : A:\D0617.70012US00seq.txt
Output Set: N:\CRF4\01042005\J661156.raw

```
        122 <220> FEATURE:
        123 <221> NAME/KEY: VARIANT
        124 <222> LOCATION: (19)...(19)
        125 <223> OTHER INFORMATION: Xaa = Asp, Gln, Glu, Gly, Met or Tyr
        127 <400> SEQUENCE: 1
W-->    128 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Ser Gly Pro Xaa Xaa Xaa Xaa Cys
        129 1               5                   10                  15
        130 Xaa Xaa Xaa
        134 <210> SEQ ID NO: 2
        135 <211> LENGTH: 14
        136 <212> TYPE: PRT
        137 <213> ORGANISM: Artificial Sequence
        139 <220> FEATURE:
        141 <223> OTHER INFORMATION: KDR or VEGF/KDR-Binding Consensus Sequence 7
        143 <220> FEATURE:
        144 <221> NAME/KEY: VARIANT
        145 <222> LOCATION: (5)...(5)
        146 <223> OTHER INFORMATION: Xaa = Asp, Gln or His
        148 <220> FEATURE:
        149 <221> NAME/KEY: VARIANT
        150 <222> LOCATION: (6)...(6)
        151 <223> OTHER INFORMATION: Xaa = His or Tyr (preferably Tyr)
        153 <220> FEATURE:
        154 <221> NAME/KEY: VARIANT
        155 <222> LOCATION: (7)...(7)
        156 <223> OTHER INFORMATION: Xaa = Ile, His or Tyr
        158 <220> FEATURE:
        159 <221> NAME/KEY: VARIANT
        160 <222> LOCATION: (9)...(9)
        161 <223> OTHER INFORMATION: Xaa = Ile, Met or Val
        163 <220> FEATURE:
        164 <221> NAME/KEY: VARIANT
        165 <222> LOCATION: (10)...(10)
        166 <223> OTHER INFORMATION: Xaa = Gly or Tyr
        168 <220> FEATURE:
        169 <221> NAME/KEY: VARIANT
        170 <222> LOCATION: (12)...(12)
        171 <223> OTHER INFORMATION: Xaa = Asp, Lys or Pro
        173 <220> FEATURE:
        174 <221> NAME/KEY: VARIANT
        175 <222> LOCATION: (13)...(13)
        176 <223> OTHER INFORMATION: Xaa = Gln, Gly or Trp
        178 <220> FEATURE:
        179 <221> NAME/KEY: VARIANT
        180 <222> LOCATION: (14)...(14)
        181 <223> OTHER INFORMATION: Xaa = Phe, Ser or Thr
        183 <400> SEQUENCE: 2
W-->    184 Trp Tyr Trp Cys Xaa Xaa Xaa Gly Xaa Xaa Cys Xaa Xaa Xaa
        185 1               5                   10
```

RAW SEQUENCE LISTING   DATE: 01/04/2005
PATENT APPLICATION: **US/10/661,156**   TIME: 13:02:45

Input Set : **A:\D0617.70012US00seq.txt**
Output Set: **N:\CRF4\01042005\J661156.raw**

```
187 <210> SEQ ID NO: 3
188 <211> LENGTH: 17
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
194 <223> OTHER INFORMATION: KDR or VEGF/KDR-Binding Consensus Sequence 9
196 <220> FEATURE:
197 <221> NAME/KEY: VARIANT
198 <222> LOCATION: (1)...(1)
199 <223> OTHER INFORMATION: Xaa = Ser, Phe, Trp, Tyr or Gly
201 <220> FEATURE:
202 <221> NAME/KEY: VARIANT
203 <222> LOCATION: (2)...(2)
204 <223> OTHER INFORMATION: Xaa = Arg, Gly, Ser or Trp
206 <220> FEATURE:
207 <221> NAME/KEY: VARIANT
208 <222> LOCATION: (3)...(3)
209 <223> OTHER INFORMATION: Xaa = Ala, Glu, Ile or Val
211 <220> FEATURE:
212 <221> NAME/KEY: VARIANT
213 <222> LOCATION: (5)...(5)
214 <223> OTHER INFORMATION: Xaa = Ala, Phe or Trp
216 <220> FEATURE:
217 <221> NAME/KEY: VARIANT
218 <222> LOCATION: (6)...(6)
219 <223> OTHER INFORMATION: Xaa = Glu or Lys
221 <220> FEATURE:
222 <221> NAME/KEY: VARIANT
223 <222> LOCATION: (7)...(7)
224 <223> OTHER INFORMATION: Xaa = Asp, Ser, Trp or Tyr
226 <220> FEATURE:
227 <221> NAME/KEY: VARIANT
228 <222> LOCATION: (8)...(8)
229 <223> OTHER INFORMATION: Xaa = Phe, Pro or Ser
231 <220> FEATURE:
232 <221> NAME/KEY: VARIANT
233 <222> LOCATION: (12)...(12)
234 <223> OTHER INFORMATION: Xaa = Gln or Glu
236 <220> FEATURE:
237 <221> NAME/KEY: VARIANT
238 <222> LOCATION: (13)...(13)
239 <223> OTHER INFORMATION: Xaa = Ile, Phe or Val
241 <220> FEATURE:
242 <221> NAME/KEY: VARIANT
243 <222> LOCATION: (15)...(15)
244 <223> OTHER INFORMATION: Xaa = Gln, Ile, Leu, Phe or Tyr
246 <220> FEATURE:
247 <221> NAME/KEY: VARIANT
248 <222> LOCATION: (16)...(16)
```

RAW SEQUENCE LISTING   DATE: 01/04/2005
PATENT APPLICATION: US/10/661,156 TIME: 13:02:45

Input Set : A:\D0617.70012US00seq.txt
Output Set: N:\CRF4\01042005\J661156.raw

```
     249 <223> OTHER INFORMATION: Xaa = Arg, Gly or Pro
     251 <220> FEATURE:
     252 <221> NAME/KEY: VARIANT
     253 <222> LOCATION: (17)...(17)
     254 <223> OTHER INFORMATION: Xaa = Gln, His, Phe, Ser, Tyr or Val
     256 <400> SEQUENCE: 3
W--> 257 Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Trp Gly Gly Xaa Xaa Cys Xaa Xaa
     258 1               5                   10                  15
     259 Xaa
     263 <210> SEQ ID NO: 4
     264 <211> LENGTH: 18
     265 <212> TYPE: PRT
     266 <213> ORGANISM: Artificial Sequence
     268 <220> FEATURE:
     270 <223> OTHER INFORMATION: KDR or VEGF/KDR-Binding Consensus Sequence 10
     272 <220> FEATURE:
     273 <221> NAME/KEY: VARIANT
     274 <222> LOCATION: (3)...(3)
     275 <223> OTHER INFORMATION: Xaa = Gly or Trp
W--> 277 <220> FEATURE: <221> VARIANT          insert a hard return
     278 <222> LOCATION: (5)...(5)
     279 <223> OTHER INFORMATION: Xaa = His or Tyr
W--> 281 <220> FEATURE:
     282 <221> NAME/KEY: VARIANT
     283 <222> LOCATION: (7)...(7)
     284 <223> OTHER INFORMATION: Xaa = His, Leu or Thr
W--> 286 <220> FEATURE:
     287 <221> NAME/KEY: VARIANT
     288 <222> LOCATION: (9)...(9)
     289 <223> OTHER INFORMATION: Xaa = Asp or Leu
W--> 291 <220> FEATURE:
     292 <221> NAME/KEY: VARIANT
     293 <222> LOCATION: (11)...(11)
     294 <223> OTHER INFORMATION: Xaa = Gly or Val
W--> 296 <220> FEATURE:
     297 <221> NAME/KEY: VARIANT
     298 <222> LOCATION: (12)...(12)
     299 <223> OTHER INFORMATION: Xaa = Thr or Val
W--> 301 <220> FEATURE:
     302 <221> NAME/KEY: VARIANT
     303 <222> LOCATION: (13)...(13)
     304 <223> OTHER INFORMATION: Xaa = Arg or Trp
W--> 306 <220> FEATURE:
     307 <221> NAME/KEY: VARIANT
     308 <222> LOCATION: (16)...(16)
     309 <223> OTHER INFORMATION: Xaa = Ala or Val
W--> 311 <220> FEATURE:
     312 <221> NAME/KEY: VARIANT
     313 <222> LOCATION: (17)...(17)
```

(handwritten note: please edit all sequences showing this error)

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/04/2005
PATENT APPLICATION: US/10/661,156   TIME: 13:02:46

Input Set : **A:\D0617.70012US00seq.txt**
Output Set: **N:\CRF4\01042005\J661156.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; Xaa Pos. 1,2,3,5,6,7,8,12,13,14,15,17,18,19
Seq#:2; Xaa Pos. 5,6,7,9,10,12,13,14
Seq#:3; Xaa Pos. 1,2,3,5,6,7,8,12,13,15,16,17
Seq#:4; Xaa Pos. 3,5,7,9,11,12,13,16,17,18
Seq#:5; Xaa Pos. 1,2,3,5,6,7,8,9,10,12,14,16,17,18
Seq#:6; Xaa Pos. 3,5,6,7,8,9,10,11,12,13,14,16,17,18
Seq#:7; Xaa Pos. 1,2,3,7,8,9
Seq#:13; Xaa Pos. 2,3,4,5,9,10,11,12
Seq#:14; Xaa Pos. 2,3,4,5,9,10
Seq#:15; Xaa Pos. 2,4,6,8,9,10
Seq#:16; Xaa Pos. 2,3,4,5,6,7,9,11
Seq#:17; Xaa Pos. 2,3,4,5,9,10,11,12
Seq#:19; Xaa Pos. 1,2,3,5,6,7,8,12,13,14,15,17,18,19
Seq#:260; Xaa Pos. 5,6,7,10,12,13,14
Seq#:261; Xaa Pos. 1,2,7,8,9,12,14,15,16,17,18
Seq#:380; Xaa Pos. 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
Seq#:455; Xaa Pos. 6
Seq#:456; Xaa Pos. 13
```

VERIFICATION SUMMARY
DATE: 01/04/2005
PATENT APPLICATION: **US/10/661,156**
TIME: 13:02:46

Input Set : **A:\D0617.70012US00seq.txt**
Output Set: **N:\CRF4\01042005\J661156.raw**

```
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:277 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:342 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:559 M:283 W: Missing Blank Line separator, <220> field identifier
L:660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:869 M:283 W: Missing Blank Line separator, <400> field identifier
L:954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
M:341 Repeated in SeqNo=19
L:4599 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:4619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260 after pos.:0
L:4651 M:283 W: Missing Blank Line separator, <220> field identifier
L:4662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:261 after pos.:0
M:341 Repeated in SeqNo=261
L:6474 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:6480 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:380
L:6480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:380 after pos.:0
M:341 Repeated in SeqNo=380
L:7652 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7656 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:455
L:7657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:455 after pos.:0
L:7672 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7676 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:456
L:7677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456 after pos.:0
L:8247 M:283 W: Missing Blank Line separator, <220> field identifier
```